

PREMIER REFRACTORIES OF INDIA PVT. LTD.

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Specification - High Alumina Plastic Refractories

PRODUCT TYPE	PRIL-PLAST-50 45-50% Alumina Plastic	PRIL-PLAST-55 55% Alumina Plastic	PRIL-PLAST-70 70% Alumina Plastic	PRIL-PLAST-70 SC 70% Silicon Carbide Plastic	PRIL-PLAST-80 S 80% Alumina Plastic	PRIL-PLAST-90 SUPER 90% Alumina Plastic
Nature of Bond Installation	Chemical Pneumatic Ramming	Chemical Pneumatic Ramming	Chemical Pneumatic Ramming	Chemical Pneumatic Ramming	Chemical Pneumatic Ramming	Chemical Pneumatic Ramming
GENERAL PROPERTIES						
Max Service Temp , °C	1650	1600	1650	1600	1750	1700
Max Grain Size, mm	6	6	6	4	4	4
Water Content , %	9 - 10	10 - 12	9 - 11	7 - 9	5 - 7	6 - 7
CHEMICAL ANALYSIS						
Al ₂ O ₃ % , min Fe ₂ O ₃ , %	44	52	68	68	80	87
max SiC , % , min	1.25	1.25	1.50	0.50	0.50	0.50
PHYSICAL PROPERTIES						
Bulk Density , gm / cc after drying at 110°C / 24 hrs ,	2.10	-	-	-	2.70	-
after drying at 260°C / 3 hrs ,	-	2.15	2.45	2.40	-	2.70
CCS, Kg / cm ² , min after drying at 110 °C / 24 hrs ,	50.0	-	-	-	250	-
after heating at 260 °C / 3 hrs ,	-	100	200	180	-	150
after heating at 800 °C / 3 hrs ,	-	100	200	180	-	150
after heating at 1400 °C / 3 hrs ,	200	-	-	400	-	-
after heating at 1500 °C / 3 hrs ,	-	-	-	-	600	-
after heating at 1550 °C / 3 hrs ,	-	450	300	-	-	300
THERMAL PROPERTIES						
Refractoriness , OC / °C , min PLC , % , max	33 / 1743	33 / 1743	36 / 1804	30 / 1665	37 / 1820	37 / 1820
after heating at 110°C / 3 hrs	-2.00	-	-	-	-	-1.0
after heating at 260°C / 3 hrs	-	-2.00	-1.70	± 1.50	-	-
after heating at 800°C / 3 hrs	-	-	-	-	-	-
after heating at 1100°C / 3 hrs	-	-	-	-	± 1.50	± 1.50
after heating at 1400°C / 3 hrs	-	-	-	± 1.0	-	-
after heating at 1550°C / 3 hrs	-1.10	± 1.50	± 1.0	-	-	-